This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A device ~~Device~~ for irradiation of at least one article/product ~~by means of beams, especially by means of high-energy electron beams which can be produced in an irradiation system, the: beams emerging from~~ comprising:

an ~~the~~ electron accelerator in a radiation area for emitting beams for irradiating at least one article/product, ~~characterized by~~

at least one scanner means (54) which defines said ~~the~~ radiation area (56), the radiation area (56) being formed spaced apart from the scanner means (54) in at least one plane (E_n) ~~in which there is~~, and

at least one transport means (TE_n) within said at least one plane (E_n), ~~and~~ by means of which at least one bar-shaped/pipe-shaped article (G_r) and/or other articles (G_n) can be moved into an ~~the~~ irradiation position.

2. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein at least one radiation area (56) is formed on at least one radiation exit window (48) and in at least one plane (E_n) which is spaced apart from the scanner means (54) in the x-direction (x) by a scan magnet and in the y-direction (y) by a wobbulator.

3. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein at least one radiation area (56) is set in the spaced planes (E_n) by the focusing ~~focussing~~ magnet of the scanner means (54), deviating in the x-direction (x) to the radiation exit window (48).

4. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein the scanner means (54) comprises at least a first scan horn (54A) with a first radiation exit window (48A) and a second scan horn (54B) with a second radiation exit window (48B).

5. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein at least one bar-shaped/pipe-shaped article (G_r) can be moved parallel to the x-direction (x) on one x-scan axis (88) by means of a bar/pipe transport means (TE_2) into a second plane (E_2) into the radiation area (56) into ~~the~~ irradiation position.

6. (Currently Amended): A device ~~Device~~ as claimed in claim 5 ~~1~~, wherein the bar/pipe transport device (TE_2) for the bar-shaped/pipe-shaped article (G_r) comprises at least a second feed means (TEZ_2).

7. (Currently Amended): A device ~~Device~~ as claimed in claim 6 ~~1~~, wherein the second feed means (TEZ_2) for the bar-shaped/pipe-shaped article (G_r) comprises an incoming storage (12), an incoming individual conveyor (14), a first lowering path (16) and an insertion path (18) up to a pre-zone (VZ).

8. (Currently Amended): A device ~~Device~~ as claimed in claim 5 ~~1~~, wherein the bar/pipe transport means (TE_2) for the bar-shaped/pipe-shaped article (G_r) comprises at least a second irradiation transport means (TEB_2) in the second plane (E_2).

9. (Currently Amended): A device ~~Device~~ as claimed in claim 8 ~~1~~, wherein the second irradiation transport means (TEB_2) ~~(TE_2)~~ for the bar-shaped/pipe-shaped article (G_r) is a bar irradiation section (10).

10. (Currently Amended): A device ~~Device~~ as claimed in claim 5 ~~1~~, wherein the bar/pipe transport means (TE_2) for the bar-shaped/pipe-shaped article (G_r) comprises at least a second removal means (TEA_2) from the post-zone (NZ) of the irradiation space (52).

11. (Currently Amended): A device ~~Device~~ as claimed in claim 10 ~~1~~, wherein the second removal means (TEA_2) for the bar-shaped/pipe-shaped article (G_r) comprises an alternating path (22), a second lowering path (24), a rollback path (26), a lifting path (28), an outgoing individual conveyor (30) and an outgoing storage (32).

12. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein a ~~the~~ bar irradiation section (20) extends between a pre-zone (VZ) and a post-zone (NZ) and an irradiation space (52).

13. (Currently Amended): A device ~~Device~~ as claimed in claim 12 ~~1~~, wherein the bar irradiation section (20) comprises at least one bar transport station (34).

14. (Currently Amended): A device ~~Device~~ as claimed in claim 13 ~~1~~, wherein the bar

transport station (34) is located parallel to the x-scan axis (88) of at least one scan horn (54, 56).

15. (Currently Amended): A device ~~Device~~ as claimed in claim 13 ~~1~~, wherein the bar transport station (34) has at least one column mechanism (34A) and at least one holding arm (34B).

16. (Currently Amended): A device ~~Device~~ as claimed in claim 15 ~~1~~, wherein the bar transport station (34) has a rotation device (36).

17. (Currently Amended): A device ~~Device~~ as claimed in claim 16 ~~1~~, wherein the bar transport station (34) has a translation device (38).

18. (Currently Amended): A device ~~Device~~ as claimed in claim 17 ~~1~~, wherein the bar transport station (34) has a vertical adjustment device (40).

19. (Currently Amended): A device ~~Device~~ as claimed in claim 15 ~~1~~, wherein the bar transport station (34) has a horizontal adjustment device (42).

20. (Currently Amended): A device ~~Device~~ as claimed in claim 18 ~~1~~, wherein the rotation device (36), the translation device (38) and the vertical adjustment device (40) are made by means of at least one allround roller (46).

21. (Currently Amended): A device ~~Device~~ as claimed in claim 20 ~~1~~, wherein the

rotation device (36) has a first drive (80) on the allround roller (46).

22. (Currently Amended): A device ~~Device~~ as claimed in claim 17 ~~1~~, wherein the translation device (38) has a second drive (82) on a driver chain.

23. (Currently Amended): A device ~~Device~~ as claimed in claim 18 ~~1~~, wherein the vertical adjustment device (40) has a third drive (84) on a chain in the column mechanism (34A).

24. (Currently Amended): A device ~~Device~~ as claimed in claim 19 ~~1~~, wherein the horizontal adjustment device (42) has a fourth drive (84) on the holding arm (34B).

25. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein at least one flexible pipe (G_{fr}) can be moved parallel to the x-direction (x) on the x-scan axis (88) or perpendicular to the x-direction (x) in the y-scan axis (90) by a pipe transport means (TE_1) into the first plane (E_1) into the irradiation position.

26. (Currently Amended): A device ~~Device~~ as claimed in claim 25 ~~1~~, wherein the pipe transport means (TE_1) for a flexible pipe (G_{fr}) comprises at least one first feed means (TEZ_1).

27. (Currently Amended): A device ~~Device~~ as claimed in claim 25 ~~1~~, wherein the pipe transport means (TE_1) for a flexible pipe (G_{fr}) comprises at least a first irradiation transport means (TEB_1) in the first plane (E_1).

28. (Currently Amended): A device ~~Device~~ as claimed in claim 25 ~~1~~, wherein the pipe transport means (TE_1) for a flexible pipe (G_{ff}) comprises at least one first removal means (TEA_1). ~~(TEA_1.)~~

29. (Currently Amended): A device ~~Device~~ as claimed in claim 28 ~~1~~, wherein at least a first feed means (TEZ_1) and at least a first removal means (TEA_1) comprise a first winding assembly (74A) and a second winding assembly (74B).

30. (Currently Amended): A device ~~Device~~ as claimed in claim 27 ~~1~~, wherein at least the first irradiation means (TEB_1) comprises guide rollers (76) and deflection rollers (78).

31. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein at least one individual item (G_s) can be moved perpendicular to the x-direction (x) in the y-scan axis (90) by means of an ~~the~~ individual item transport means (TE_3) into a ~~the~~ third plane (E_3) into the irradiation position.

32. (Currently Amended): A device ~~Device~~ as claimed in claim 31 ~~1~~, wherein the individual item transport means (TE_3) for an individual item (G_s) comprises at least a third feed means (TEZ_3).

33. (Currently Amended): A device ~~Device~~ as claimed in claim 32 ~~1~~, wherein the

individual item transport means (TE_3) for an individual item (G_s) comprises at least a third irradiation transport means (TEB_3) in the third plane (E_3).

34. (Currently Amended): A device ~~Device~~ as claimed in claim 33 ~~1~~, wherein the individual item transport means (TE_3) for an individual item (G_s) comprises at least a third removal means (TEA_3).

35. (Currently Amended): A device ~~Device~~ as claimed in claim 34 ~~1~~, wherein at least one third feed means (TEZ_3), at least one third irradiation transport means (TEB_3) and at least one third removal means (TEA_3) comprises a conveyor means (72A, 72B, 72C).

36. (Currently Amended): A device ~~Device~~ as claimed in claim 34 ~~1~~, wherein at least one third feed means (TEZ_3) or at least one third removal means (TEA_3) comprises a turning station (70).

37. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein each transport means (TE_1, TE_2, TE_3) forms one labyrinth (10A, 10B, 10C) at a time.

38. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein at least one bar-shaped/pipe-shaped article (G_r) is a pipe or a bar ~~pipes or bars or the like~~.

39. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein said pipe or

a bar has ~~the pipes or bars or the like have~~ a diameter from 10 mm to 500 mm.

40. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein said pipe or a bar has ~~the pipes or bars or the like have~~ a length from 5,000 mm to 12,000 mm.

41. (Currently Amended): A device ~~Device~~ as claimed in claim 25 ~~1~~, wherein at least one flexible pipe (G_{fr}) is a flexible pipe or [[,]] a cable ~~or the like~~.

42. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein the flexible pipe or cable has ~~pipes or the cable or the like have~~ a diameter from 1 mm to 160 mm~~, preferably 14 mm to 63 mm~~.

43. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein the flexible pipe or cable is a ~~pipes or the cable or the like are~~ drum-wound article ~~articles~~.

44. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein at least one individual item (G_s) is a cardboard product or bunches ~~or the like~~.

45. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein the cardboard product or bunches ~~or the like~~ have a maximum length/width/height of 1200 mm / 1200 mm / 800 mm.

46. (Currently Amended): A device ~~Device~~ as claimed in claim 1, wherein the bar-shaped/pipe-shaped article (G_r) has an auxiliary wall for holding several thin pipes or bars.

47. (Currently Amended): A device ~~Process~~ as claimed in claim 46, wherein the auxiliary wall is a cardboard sleeve or a thin-walled PE pipe.

48. (Original): Process for irradiating at least one article/product by means of beams, especially by means of high-energy electron beams which have been produced in an irradiation system, the beams emerging in a certain radiation area and at least one article/product being supplied to the radiation area, irradiated in the radiation area and being removed from the irradiation area, wherein at least one bar-shaped/pipe-shaped article (G_r) and/or other articles (G_n) are supplied to at least one plane (E_n), the radiation area (56) is assigned to this at least one plane (E_n) and at least one article/product (G_r/G_n) is moved into the irradiation position and is irradiated.

49. (Original): Process as claimed in claim 48, wherein at least one bar-shaped/pipe-shaped article (G_r) through a second labyrinth (10B)

a) is stored in the incoming storage (12) and

b) separated by means of an incoming individual conveyor (14) and

c) lowered by means of a first lowering path (16) into a second plane (E_2) and

d) transported by means of an insertion path (18) into a pre-zone (VZ) and

e) transported by the second irradiation transport means (TEB_2) from the pre-zone (VZ) along the x-scan axis (88) parallel to the x-direction (x) through the radiation area (56) into the

post-zone (NZ) and

f) is accepted from the post-zone (NZ) from an alternating path (22) and transported to a second lowering path (24) and

g) lowered by means of the second lowering path (24) and

h) by means of a rollback path (26) is rolled to a lifting path (28) and

i) lifted by means of the lifting path (28) and

j) is transported by the outgoing individual conveyor (30) to the outgoing storage (32) and

k) is stored in the outgoing storage (32).

50. (Original): Process as claimed in claim 49, wherein at least one bar-shaped/pipe-shaped article (G_r) is transported by means of the second irradiation transport means (TEB_2) from the pre-zone (VZ) along the x-scan axis (88) parallel to the x-direction (x) into the post-zone (NZ) and

e1) is rotated at the same time by means of a rotation device (36) around its own axis and/or

e2) is re-adjusted vertically by means of a vertical adjustment device (40) within a first and the second plane (E_1, E_2) and/or

e3) is re-adjusted horizontally by means of a horizontal adjustment device (42) out of the x-scan axis (88) within the first or second plane (E_1, E_2).

51. (Original): Process as claimed in claim 48, wherein at least one flexible pipe (G_{fr}) through a first labyrinth (10A)

a) is unrolled by means of a first winding assembly (74A) and

b) is transported from a first irradiation transport means (TEB_1) parallel to the x-direction (x) on the x-scan axis (88) or perpendicular to the x-direction (x) in the y-scan axis (90) through the radiation area (56) by means of deflection and guide rollers (76, 78) and

c) is wound up by means of a second winding assembly (74B).

52. (Original): Process as claimed in claim 48, wherein an individual item (G_s) is transported through a third labyrinth (10C)

a) by means of at least a first conveyor means (72A) and

b) is transported from a third irradiation transport means (TEB_3) perpendicular to the x-direction (x) on the y-scan axis (90) by means of at least the second conveyor means (72B/72B') through the radiation area (56) and

c) is removed by means of at least the third conveyor means (72c).

53. (Original): Process as claimed in claim 52, wherein at least one individual item (G_s) is supplied or removed by means of at least the first or third conveyor means (72A, 72C) and

c1) is turned by means of a turning station (70) on the first or third conveyor means (72A, 72C).

54. (Previously Presented): Process as claimed in claim 48, wherein at the same time flexible pipe (G_{fr}) and the bar-shaped/pipe-shaped articles (G_r) are irradiated in the first and second plane (E_1, E_2) in the radiation area (56) in the irradiation position.

55. (Previously Presented): Process as claimed in claim 48, wherein at the same time

flexible pipe (G_{fr}) and an individual item (G_s) are irradiated in the first and third plane (E_1, E_3) in the radiation area (56) in the irradiation position.

56. (Original): Process as claimed in claim 48, wherein several thin pipes or bars are introduced into the bar-shaped/pipe-shaped article and are supplied jointly to irradiation.